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Haldor Topsoe establishes focused green hydrogen organization to accelerate electrolysis business

[Ulrik Frøhlke](#)

- The new green hydrogen organization is fully dedicated to accelerating all aspects of Topsoe's business within electrolysis, including development of high-performance electrolysis technology, sales, and partnerships.
- The organization will leverage Topsoe's unique insights into solid oxide electrolysis, which is the most efficient electrolysis technology available today, producing up to 30% more green hydrogen from the same amount of renewable power, when compared to today's standard technologies.
- Cleantech entrepreneur Chokri Mousaoui will be new member of Topsoe's Senior Leadership Team and Executive Vice President of the new organization, which is effective as of today.

Topsoe is determined to take a leading position in the burgeoning green hydrogen space, which, according to an International Energy Agency (IEA) forecast, has the potential to fulfil 17% of the global energy demand by 2050. Topsoe offers a unique end-to-end portfolio within green hydrogen production by electrolysis and the associated downstream production of ammonia, methanol, and e-fuels that offers customers high-value products, efficient distribution and storage, and high yields.

"At the core of our efforts is our capability to turn renewable power into

essential carbon-neutral fuels and chemicals. We have Topsoe's leading electrolysis technology, now we add the fully focused organization and leadership needed to realize its true potential. I am thrilled to welcome Chokri Mousaoui as Executive Vice President and head of the organization. Chokri brings great leadership and commercial experience from a highly successful tech startup and will lead our work to accelerate the commercialization of our green hydrogen business," says Roeland Baan, CEO at Topsoe.



Chokri Mousaoui, EVP and Head of green hydrogen at Haldor Topsoe.

Chokri Mousaoui co-founded Eternal Sun in 2011, which specializes in equipment for testing solar modules. Under his leadership, the company evolved from a startup to the market leader within solar testing. In 2016, the

company acquired the solar simulator division of US-based Spire Solar Corporation, and in 2019 ABN AMRO Energy Transition Fund joined as new majority shareholder.

"I am impressed with Topsoe's bold vision of being recognized as the global leader in carbon emission reduction technologies by 2024. Not least because the company truly has what it takes to make an exceptional contribution to move the energy transition forward. I really look forward to working together with the talented people here to commercialize our green hydrogen offerings and bring them to the market fast. The demand for innovative solutions is significant and growing," says Chokri Mousaoui, Executive Vice President at Topsoe.

In March, Topsoe announced that it will build a large-scale SOEC electrolyzer manufacturing facility to meet customer needs for green hydrogen production. When operational in 2023, the facility will produce electrolysis stacks with a capacity of 500 MW per year, expandable to 5 GW. The industrial-scale electrolyzers will be based on Topsoe's proprietary SOEC high-temperature electrolysis technology offering 30% larger hydrogen output compared to standard technologies.

CV – Chokri Mousaoui, EVP Green Hydrogen Development and member of the Senior Leadership Team, Haldor Topsoe

2021 – Member, Supervisory Board of Energy Transition Fund
Rotterdam, The Netherlands

2020 – Member, Advisory Council of the Dutch Government on
Science, Technology and Innovation, The Netherlands

2010 – 2019 Co-founder and CEO, Eternalsun Spire, Netherlands. Leading

manufacturer of solar simulators and integrated climate chambers for measuring performance and reliability of PV modules. Founded as a spin-off from Delft University of Technology. Disrupted the solar panel testing market by inventing an award-winning steady-state testing technology. Raised private equity funding. Spearheaded the acquisition of US-based Spire Solar. Acquired by ABN AMRO Energy Transition Fund 2019.

2010 Studied Systems Engineering, Policy Analysis and Management, Delft University of Technology

Selected projects with Topsoe technologies

- **100 MW Aquamarine project - Germany;** Topsoe and Aquamarine have entered into a Memorandum of Understanding to build a 100 megawatt SOEC electrolysis facility to produce green hydrogen to be converted into 300 tons/day of green ammonia.
- **NEOM Helios project, Saudi Arabia;** Topsoe delivers ammonia technology for the world's biggest green hydrogen facility being built in Saudi Arabia. The facility will produce 650 tons/day of carbon-free hydrogen to power trucks and busses.
- **Green Fuels project, Denmark;** a partnership of Danish companies that will establish green hydrogen production in the Greater Copenhagen Area. Topsoe contributes with know-how about technologies that convert captured CO₂ into sustainable methanol and jet fuel using green hydrogen.
- **Green methanol facilities, Scandinavia;** as member of a Power-to-X consortium led by Liquid Wind, Topsoe will produce eMethanol™ on a commercial scale based on green hydrogen and CO₂ capture from waste incineration.

[Read more about Topsoe's green hydrogen business.](#)

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About Haldor Topsoe

Haldor Topsoe is a global leader in supply of catalysts, technology, and services to the chemical and refining industries. Topsoe aims to be the global leader within carbon emission reduction technologies by 2024. By perfecting chemistry for a better world, we enable our customers to succeed in the transition towards renewable energy. Topsoe is headquartered in Denmark and serves customers around the globe. In 2020, our revenue was approximately DKK 6.2 billion, and we employ around 2,100 employees.

www.topsoe.com

More information

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